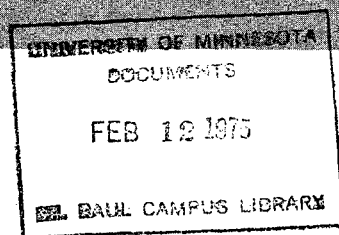


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**HORTICULTURE NO. 17**  
**MERVIN C. EISEL\***



## Culture of Garden Roses

Roses are one of the most popular of all garden flowers. They can be grown in all parts of Minnesota. Shrub and old-fashioned roses are useful in landscape plantings around the home. Climbers are effective when grown on an arbor or fence. The hybrid teas, floribundas, miniatures, and grandifloras are best planted in specially prepared beds.

### SELECTING A SITE

Roses do best in a location where they receive a minimum of 6 hours of direct sunlight daily. Roses prefer a well-drained, fertile, loamy soil that is at least 2 feet deep. Air movement through the foliage is desirable to keep it dry. Foliage that is moist for long periods is likely to become infected by disease organisms.

### SELECTING AND PURCHASING ROSES

Before you buy rose plants, decide where you want to use them and acquaint yourself with the many different classes of roses. There are hundreds of named rose varieties from which to choose.

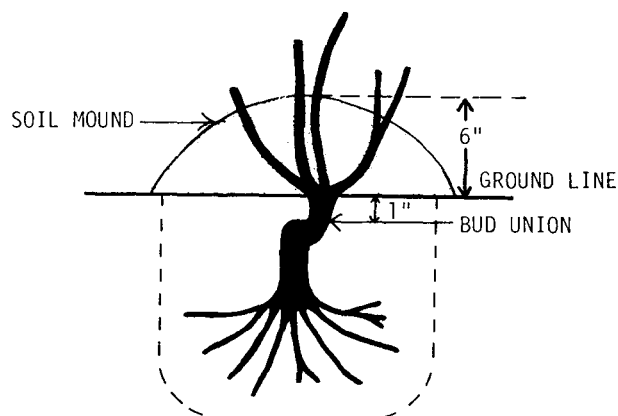
You can learn much by studying rose catalogs. A visit to local rose gardens also provides an excellent opportunity to study roses and learn which ones are adapted to your area.

You may purchase roses as dormant plants. When ordering them, indicate that you want number one plants. They are large plants that quickly recover and provide abundant bloom the first year after planting. Request delivery between April 15 and May 15. If you select dormant plants from a local nursery, avoid plants that have long sprouts, as they deplete a plant's food reserve. Plants should have at least three strong canes. They should have moist moss around their roots and be wrapped in waterproof material.

You can plant potted roses later in the spring than dormant plants. However, since their foliage is tender, do not plant them until all danger from frost has passed.

### PLANTING

Plant dormant roses in early spring. Plant them with the bud union (knob) an inch below the surface of the ground.   
 \*This fact sheet was prepared in cooperation with the Minnesota Rose Society.



A properly planted rose bush.

surface of the ground. The hole should be large enough to permit spreading out the roots without bunching them. Spread the roots in the hole and pack soil under, around, and over them. Water the plant thoroughly.

Mound the base of the plant with 6 inches of soil after you water it. Keep the mound moist and leave it in place for about 10 days or until growth has started. Check it periodically to see if growth has started. Remove the mound carefully. Preferably, remove it on a cool, humid day rather than on a hot and windy one.

You can plant potted roses in much the same manner. You must remove the pot. Remove the bottom first, place the rose in the hole, and then carefully remove the side without disturbing the soil ball. Fill the hole with soil and water the plant thoroughly. It is not necessary to mound actively growing roses.

### WATERING

A constant moisture supply is vital to successful rose culture. Starting in early spring, roses require a minimum of 1 inch of water per week. Apply this amount at one time. Sandy soils will require more frequent watering than other types. Overhead watering is desirable in early spring before growth starts. This watering will prevent the canes from drying. After growth has begun, apply the water directly to the soil or water early enough in the day so the foliage will dry before evening. Wet foliage is susceptible to diseases.

## FERTILIZING

Applying well-rotted barnyard manure to rose beds in early spring is one of the best methods of fertilizing roses. This rotted manure adds both nutrients and organic matter to the soil. Dehydrated manure, bonemeal, and soybean meal also are good fertilizers. Because these materials decompose slowly, you should supplement them with an all purpose fertilizer or with one of the many available rose fertilizers. A fertilizer with a chemical analysis similar to 10-10-10 is desirable. Keep all manure and fertilizers at least 6 inches from the canes.

You may fertilize roses once monthly until August 1. Be sure you follow the manufacturer's directions. Careless use of fertilizers can be injurious to plants. A thorough watering after fertilization is recommended.

## DISEASE AND INSECT CONTROL

Most gardeners prefer a routine spray or dusting program--dusting or spraying every 7 to 10 days and after rain. Disease problems are most prevalent during periods of moist weather. Use spray materials that contain an insecticide, miticide, and fungicide to control insects, diseases, and red spider mites.

## WEED CONTROL

To be effective, hand hoeing or cultivation must be started early in the season. Cultivation should be frequent, but shallow.

A summer mulch such as grass clippings, peat, pine needles, wood chips, or shredded bark helps eliminate the unpleasant task of hand hoeing. Place the mulch material 2 to 3 inches deep around the plant. A mulch also conserves moisture and cools and conditions the soil. So leave mulches in place permanently, as they eventually will decompose and become part of the soil.

## WINTER PROTECTION

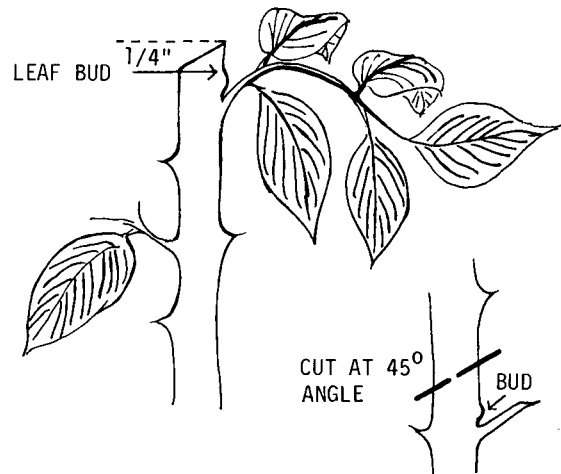
You should give adequate winter protection to all roses except those that are completely hardy. Roses must be protected not only against low temperatures, but against fluctuating temperatures.

The two methods described below have been used successfully for protecting roses in winter. Spray all the rose bushes with a fungicide to prevent disease organisms from overwintering on plants. And it's a good idea to protect the plants by applying a mouse control bait before you cover them.

### Tipping

1. Shortly after the middle of October, make a trench extending out from the base of the bush. Make it deep enough to accommodate the plant. You can put more than one bush in a large trench.

2. Tie canes together in a bundle and gently tip the bush into the trench. To facilitate tipping, loosen the soil around the plant with a spading fork.



Make pruning cut 1/4 inch above an outgrowing bud at a 45° angle.

3. Cover the plant with the soil from the trench.

4. In early November, cover the plant with a 3-5 inch layer of leaves. A week later, add a 1 foot layer of marsh hay.

5. In the spring (about April 1), remove all covering in stages as it thaws out. When the ground has thawed, carefully raise the plants, replace the soil around the plants, and water them thoroughly if the soil is dry. Put a sprinkler on dormant roses for 2 hours a day several times.

### Mounding

1. About mid-October, tie the canes together.

2. Mound the base of each plant with 6-8 inches of soil. Place wire netting around the entire bed. Fill this enclosure with about 3 feet of leaves (preferably oak). Cover the leaves with marsh hay to prevent them from blowing away. Do not cover leaves with plastic, tarpaper, or waterproof covering. About April 15, remove the soil mound and water the plants thoroughly if the ground is dry.

## SPRING PRUNING

Remove all deadwood. You may want to shape and cut back some of the tall canes to maintain the planting at a uniform height. When you prune a cane, cut about 1/4 inch above an outgrowing leaf bud at about a 45° angle. Cutting at that point helps insure that the plant will be well shaped.

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Mention of commercial names does not imply endorsement nor does failure to mention a name imply criticism.

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